

**INTELLIGENT COMPACTION QUALITY CONTROL REPORT SUMMARY
FOR HOT MIX ASPHALT WITH DENSITY REQUIREMENT**

CEM-IC13 (09/20/2016)

PROJECT INFORMATION/NAME		CONTRACT NUMBER	CO/RTE/PM
		PROJECT IDENTIFIER NUMBER	
		CONTRACTOR NAME	
Instruction: This form to be used by the contractor to summarize the daily hot mix asphalt intelligent compaction quality control report information. For questions about this form send an email to: IC@dot.ca.gov			
Quality control report for hot mix asphalt placed on:		HMA Placement Date	
Hot Mix Asphalt Information			
HMA Placement Location		Direction	Lane Number
Beginning Station/Post Mile	Ending Station/Post Mile	HMA Type	HMA Thickness
Intelligent Compaction Technical Representative			
Compaction QC Technician (print name)		Company (print name)	
Email address		Phone Number :	
Intelligent Compaction Quality Control Technician			
Compaction QC Technician (print name)	Intelligent Compaction QC Training Completion Date:	Training requirement effective January, 1 2017.	
Email address	Phone Number		
Intelligent Compaction Data Analysis Technician			
Data Analysis Technician (print name)	Data Analysis Training Completion Date:	Training requirement effective January 1, 2017.	
Email address	Phone Number		
Quality Control Report Preparer			
Quality Control Report Completed by (print name)	Signature	Date	
Email Address	Phone Number		
Activities Before Daily Production			
<input type="checkbox"/> Check testing A-GPS measurements from Roller _____ B- GPS measurements from rover _____ Difference (A-B) _____ ft.* <i>*Take corrective action if difference more than 0.5 ft</i>		<input type="checkbox"/> Temperature sensor accuracy verification A-Temperature from Roller _____ °F B- Temperature from independent device _____ °F Difference (A-B) _____ °F* <i>*Take corrective action if difference more than 5°F</i>	
COMMENTS:			

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Intelligent Compaction Target Values Determined From Test Strip	
_____ Target number of roller passes for breakdown compaction	Roller type: <input type="checkbox"/> Steel vibratory <input type="checkbox"/> Steel static <input type="checkbox"/> Pneumatic
_____ Target roller 1 st pass minimum temperature breakdown compaction	
_____ Target number of roller passes for intermediate compaction	Roller type: <input type="checkbox"/> Steel vibratory <input type="checkbox"/> Steel static <input type="checkbox"/> Pneumatic
_____ Target minimum temperature °F for completing intermediate compaction	
_____ Target intelligent compaction measurement value	
_____ Roller pass number that is the basis for target intelligent compaction measurement value	
COMMENTS:	
DAILY COMPACTION QUALITY CONTROL REPORT SUMMARY	
Breakdown Compaction Vibratory Steel Drum Roller Number of Passes	
HMA Tonnage placed within boundary _____	
_____ Target number of roller passes	_____ Percent work area covered by minimum number of roller passes
Does the number of passes for IC vibratory steel drum roller compaction shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target value established at the test strip? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If no, corrective action taken:	
Breakdown Compaction HMA Mat Temperature	
_____ Target 1 st pass minimum temperature	_____ Percent work area covered by minimum temperature
Does the 1 st PASS breakdown compaction temperature results show that temperature meets or exceeds the target minimum temperature for at least 95% of the daily HMA placement area? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If no, corrective action taken:	
Breakdown Compaction Intelligent Compaction Measurement Value	
_____ Target intelligent compaction measurement value	_____ Daily average intelligent compaction measurement value

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Does the daily average intelligent compaction measurement value for final coverage of IC vibratory steel drum roller meets or exceeds the target intelligent compaction measurement value established at the test strip?

☐ Yes ☐ No

If the answer is no, is the daily average intelligent compaction value at least 81 percent of the target measurement value?

☐ Yes ☐ No

If the answer is no, reestablish the intelligent compaction measurement value.

Intermediate Compaction Roller Number of Passes

_____ Target number of roller passes

_____ Percent work area covered by minimum number of roller passes

Does the number of passes for intermediate compaction roller shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target established at the test strip?

☐ Yes ☐ No

If no, corrective action taken:

Complete Intermediate Compaction HMA Mat Temperature

_____ Target intermediate compaction HMA mat temperature

_____ Percent work area covered by minimum temperature

Does the final pass of intermediate compaction temperature results show that temperature meets or exceeds the minimum target temperature for at least 95% of the daily HMA placement area?

☐ Yes ☐ No

If no, corrective action taken:

Additional Intelligent Compaction Vibratory Steel Drum Roller Compaction

If the roller pattern established at the test strip includes addition rolling using IC vibratory steel drum roller after pneumatic rubber tire rolling provide the following information:

☐ Yes ☐ Not Required

Roller Number of Passes

_____ Target number of roller passes

_____ Percent work area covered by minimum number of roller passes

Does the number of passes for IC vibratory steel drum roller compaction shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target value established at the test strip?

☐ Yes ☐ No

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If no, corrective action taken:

Intelligent Compaction Measurement Value

_____ Target intelligent compaction measurement value

_____ Daily average intelligent compaction measurement value

Does the daily average intelligent compaction measurement value for final coverage of IC vibratory steel drum roller meets or exceeds the target intelligent compaction measurement value established at the test strip?

☐ Yes ☐ No

If the answer is no, is the daily average intelligent compaction value at least 81 percent of the target measurement value?

☐ Yes ☐ No

If the answer is no, reestablish the intelligent compaction measurement value.

Note:**1) Results from intelligent compaction are for contractor quality control purposes and not to be used as Caltrans acceptance of HMA.****2) When the density is verified by contractor nuclear gage quality control test results, then corrective action for number of passes is not required.**
Compaction Quality Control Report Review

COMMENTS:

I have reviewed the intelligent compaction results shown on compaction quality control report for compliance with the contract specifications and taken corrective action when required.

Quality Control Manager (print name)

Signature

Date Reviewed

Compaction Quality Control Report Submittal Information

Submit hardcopy to resident engineer within 1 business day of HMA placement.

Submitted by (print name)

Date

Submit Adobe *.pdf file of this form to resident engineer within 1 business day of HMA placement.

Submitted by (print name)

Date